



Performance Data Sheet

AKA5511CXD

General Information

Model	AKA5511CXD	Refrigerant	R-407C
Test Condition	ASHRAE	Performance Test Voltage	230V ~ 60HZ
Return Gas	35°C (95°F) RETURN GAS	Motor Type	CSR

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h							
	Watts	576	466					
	Amps	4.21	3.83					
	Lb/h	58.0	48.3					
-10	Btu/h	1030	547					
	Watts	665	576	479				
	Amps	4.44	4.13	3.79				
	Lb/h	62.4	53.7	44.0				
-5	Btu/h	2280	1800	1250	629			
	Watts	739	671	594	510			
	Amps	4.63	4.39	4.12	3.83			
	Lb/h	67.6	59.6	50.7	41.0			
0	Btu/h	3490	2990	2430	1810	1130		
	Watts	800	750	694	630	559		
	Amps	4.79	4.61	4.41	4.19	3.94		
	Lb/h	73.7	66.2	58.0	49.1	39.3		
5	Btu/h	4680	4140	3560	2930	2240		
	Watts	850	817	779	735	684		
	Amps	4.92	4.80	4.66	4.51	4.33		
	Lb/h	80.9	73.8	66.1	57.8	48.8		
10	Btu/h	5870	5280	4660	4000	3290	2530	1720
	Watts	890	873	852	826	794	755	708
	Amps	5.03	4.97	4.89	4.80	4.69	4.55	4.40
	Lb/h	89.4	82.6	75.3	67.4	58.9	49.7	39.7
15	Btu/h	7080	6430	5750	5050	4300	3520	2690
	Watts	921	919	914	904	890	870	843
	Amps	5.12	5.11	5.09	5.05	5.00	4.94	4.85
	Lb/h	99.5	92.7	85.6	78.1	70.0	61.4	52.0
20	Btu/h	8330	7600	6860	6090	5300	4480	3620
	Watts	947	958	967	973	975	972	963
	Amps	5.19	5.23	5.27	5.29	5.30	5.29	5.26
	Lb/h	111	105	97.5	90.1	82.3	74.0	65.1

25	Btu/h	9660	8830	8000	7160	6300	5430	4520
	Watts	968	991	1010	1030	1050	1060	1070
	Amps	5.26	5.35	5.43	5.50	5.56	5.61	5.65
	Lb/h	125	118	111	104	95.8	87.7	79.2
30	Btu/h	11100	10100	9200	8270	7340	6390	5420
	Watts	986	1020	1050	1090	1120	1140	1170
	Amps	5.32	5.45	5.57	5.69	5.81	5.91	6.00
	Lb/h	141	134	126	119	111	103	94.6
35	Btu/h	12600	11500	10500	9450	8420	7390	6350
	Watts	1000	1050	1090	1130	1180	1220	1260
	Amps	5.38	5.54	5.71	5.88	6.04	6.19	6.34
	Lb/h	160	152	144	136	128	120	111
40	Btu/h	14200	13000	11900	10700	9580	8440	7310
	Watts	1020	1070	1130	1180	1230	1280	1340
	Amps	5.44	5.64	5.85	6.05	6.26	6.46	6.65
	Lb/h	181	172	164	155	147	138	130
45	Btu/h	16100	14700	13400	12100	10800	9580	8340
	Watts	1040	1100	1160	1220	1280	1350	1410
	Amps	5.51	5.74	5.98	6.22	6.47	6.71	6.95
	Lb/h	205	195	186	177	168	159	150
50	Btu/h	18000	16500	15000	13600	12200	10800	9460
	Watts	1060	1130	1200	1260	1340	1410	1480
	Amps	5.58	5.85	6.12	6.40	6.68	6.96	7.24
	Lb/h	232	221	211	201	192	182	173
55	Btu/h	20200	18500	16900	15300	13700	12200	10700
	Watts	1090	1160	1230	1310	1390	1470	1550
	Amps	5.68	5.97	6.27	6.57	6.89	7.20	7.52
	Lb/h	263	251	239	228	218	208	198

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.306930E+03	1.062711E+03	5.824112E+00	1.180414E+02
C2	3.519456E+02	-1.089953E+01	-5.102666E-02	1.356570E+00
C3	-2.844121E+01	-2.656104E+00	-1.121217E-02	-4.811474E-01
C4	1.978778E+00	-1.497540E-02	2.740065E-05	4.826905E-02
C5	-2.199932E+00	1.958569E-01	7.798577E-04	-9.491086E-03
C6	-6.732143E-03	2.299759E-03	9.660099E-06	1.625442E-04
C7	2.971623E-02	2.301475E-03	5.716026E-06	2.903894E-04
C8	-3.028975E-02	-2.676727E-03	-7.152652E-06	-3.219974E-04
C9	9.853226E-03	9.719411E-04	2.734142E-06	1.126730E-04
C10	-9.650978E-04	-1.262990E-04	-3.901516E-07	-1.352481E-05

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature